

Rev03
Update: Dec,14,2021

DATASHEET

G-CSF, Rat (HEK 293-expressed)

Cat. No.: Z03101

Product Introduction

Species	Rat
Protein Construction	G-CSF (Ile22-Ile214) Accession # P97712
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 5.0 pg/ml, measured in a cell proliferation assay using NFS-60 cells.
Expression System	HEK 293
Apparent Molecular Weight	25~28 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

Target Background : Among the family of colony-stimulating factors, Granulocyte Colony-Stimulating Factor (G-CSF) is the most potent inducer of terminal differentiation of leukemic myeloid cell lines into granulocytes and macrophages. G-CSF synthesis can be induced by bacterial endotoxins, TNF, Interleukin-1 and GM-CSF. Prostaglandin E2 inhibits G-CSF synthesis. In epithelial, endothelial, and fibroblastic cells, secretion of G-CSF is induced by Interleukin-17.

Synonyms : CSF3; C17orf33; CSF3OS; GCSF; colony stimulating factor 3; CSF-3; Granulocyte Colony-Stimulating Factor

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